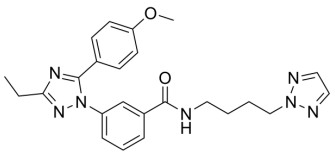
HJ445A

Cat. No.:	HY-163084		
Molecular Formula:	$C_{24}H_{27}N_7O_2$		
Molecular Weight:	445.52		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (224.46 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.2446 mL	11.2228 mL	22.4457 mL
5 mM	0.4489 mL	2.2446 mL	4.4891 mL
10 mM	0.2245 mL	1.1223 mL	2.2446 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: 2.5 mg/mL (5.61 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.5 mg/mL (5.61 mM); Clear solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 2.5 mg/mL (5.61 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

HJ445A is a potent MYOF inhibitor and binds to the MYOF-C2D domain with a K_D of 0.17 μM. HJ445A potently repressed the proliferation of gastric cancer cells with IC_{50} values of 0.16 and 0.14 μM in MGC803 and MKN45, respectively. HJ445A demonstrates superior antitumor efficacy in vivo and can be used for cancer research[1].

IC_{50} & Target

IC50: MYOF[1]

REFERENCES

[1]. Haijun Gu, et al. Discovery of a Highly Potent and Selective MYOF Inhibitor with Improved Water Solubility for the Treatment of Gastric Cancer. J Med Chem. 2023 Dec 6.

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